

Title (en)

METHOD AND APPARATUS FOR PROVIDING A HAPTIC FEEDBACK SHAPE-CHANGING DISPLAY

Title (de)

METHOD AND APPARATUS FOR PROVIDING A HAPTIC FEEDBACK SHAPE-CHANGING DISPLAY

Title (fr)

PROCÉDÉ ET APPAREILS POUR PRODUIRE UN ÉCRAN D'AFFICHAGE À CHANGEMENT DE FORME ET À RÉTROACTION HAPTIQUE

Publication

**EP 2427879 B1 20150819 (EN)**

Application

**EP 10723446 A 20100507**

Priority

- US 2010034078 W 20100507
- US 17643109 P 20090507
- US 23170809 P 20090806

Abstract (en)

[origin: WO2010129892A2] A haptic device includes a processor, a communication module coupled to the processor for receiving a shape input, and a housing for housing the communication module and including a deformable portion. The deformable portion includes a deformation actuator, and the processor provides a signal to the deformation actuator in response to the shape input to deform the housing. The shape of other areas of the device may also change in response to the signal. The shape changes may provide haptic effects, provide information, provide ergonomic changes, provide additional functionality, etc., to a user of the device.

IPC 8 full level

**G06F 3/038** (2013.01); **G06F 3/048** (2013.01); **G09G 5/00** (2006.01)

CPC (source: CN EP KR US)

**B06B 1/06** (2013.01 - KR); **G06F 3/016** (2013.01 - CN EP KR US); **H02N 2/02** (2013.01 - KR); **G06F 2203/013** (2013.01 - KR)

Cited by

CN109062414A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**WO 2010129892 A2 20101111; WO 2010129892 A3 20101229**; CN 102422244 A 20120418; CN 105807927 A 20160727;  
EP 2427879 A2 20120314; EP 2427879 B1 20150819; EP 2963524 A1 20160106; JP 2012526331 A 20121025; JP 2014222521 A 20141127;  
JP 5658235 B2 20150121; JP 6144649 B2 20170607; KR 101718680 B1 20170321; KR 20120019471 A 20120306;  
KR 20170003738 A 20170109; US 2010283731 A1 20101111

DOCDB simple family (application)

**US 2010034078 W 20100507**; CN 201080020071 A 20100507; CN 201610131812 A 20100507; EP 10723446 A 20100507;  
EP 15176885 A 20100507; JP 2012510020 A 20100507; JP 2014131461 A 20140626; KR 20117029150 A 20100507;  
KR 20167036941 A 20100507; US 77612110 A 20100507